

**USEPA REGION 9 LABORATORY**  
**REPORT NARRATIVE**

CASE NUMBER: R00S16  
SAMPLE DELIVERY GROUP: 00119A  
PROGRAM: SUPERFUND  
DOCUMENT CONTROL #: ESTW-9B-3258  
DATE: 05/15/00  
ANALYSIS: PERCHLORATE AND TOTAL DISSOLVED SOLIDS  
  
SAMPLE NUMBERS:

**SAMPLE ID**  
LVW@No. Shore Rd Bridge

**LABORATORY SAMPLE ID**  
AB26853

**GENERAL COMMENTS**

One water sample was received from the Colorado River Perchlorate Study Superfund project on 04/28/00.

The requested analyses were perchlorate by Region 9 Laboratory SOP #531 and total dissolved solids by Region 9 Laboratory SOP #461 (EPA Method 160.1). The perchlorate sample was analyzed within the required 28-day holding time; the TDS sample was analyzed within the required 7-day holding time.

**SAMPLE RECEIPT AND PRESERVATION**

No custody seal was on the cooler.

**QA/QC SUMMARY**

No analytes were detected in the blanks associated with this SDG.

No LFM or LFM duplicate was analyzed for perchlorate; the QC sample required a 20-fold dilution.

No duplicate analysis was performed for TDS due to lack of sample.

The RPD for the perchlorate duplicate was less than or equal to the QC limit of 20%.

The crucible for the TDS high LFB sample was broken before the second weighing. The initial weighing of the high LFB was within the 85-115% QC limits. The low LFB recovery was within the 85-115% QC limits. The perchlorate LFB was within the 90-110% QC limits.

Questions concerning the data can be answered by Patrick Hirata at (510) 412-2354.

## GLOSSARY

### Laboratory Reagent Blanks (LRB)

A laboratory reagent blank is laboratory reagent water or baked sand with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. The laboratory reagent blank is used to determine the level of contamination introduced by the laboratory during analysis.

### Laboratory Fortified Matrix (LFM), Laboratory Fortified Matrix Duplicate (LFMD) and Laboratory Duplicate (LD) Analysis

The laboratory fortified matrix spike sample and laboratory duplicate analyses provide information about the effect of the sample matrix on sample preparation and measurement. Poor percent recovery (%R) results and large relative percent difference (RPD) between duplicates may indicate inconsistent laboratory technique, sample nonhomogeneity in soils, or matrix effects which may interfere with analysis.

### Laboratory Fortified Blank (LFB) Analysis

The laboratory fortified blank is laboratory reagent water or baked sand with a known concentration of the analytes of interest added by the laboratory with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. Poor percent recovery (%R) results may indicate inconsistent laboratory technique.

**EPA REGION 9 LABORATORY-RICHMOND, CA**  
**SUMMARY OF ANALYTICAL RESULTS**

**Case Number:** R00S16  
**Site:** Colorado River Perchlorate Study  
**SDG:** 00119A  
**Date:** 05/15/00

**Analysis:** Perchlorate and TDS  
**Matrix:** Water

<b>Station Location</b>	N/A			<b>N/A</b>	N/A		
<b>Sample I.D.</b>	LVW@No. Shore Rd.			<b>Reagent</b>			<b>Quantitation</b>
<b>Lab Sample I.D.</b>	AB26853			<b>Blank</b>			<b>Limit</b>
<b>Date of Collection</b>	04/27/00			<b>N/A</b>			<b>N/A</b>
<b>Analyte</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>
Perchlorate (ug/L)	750			5	U		5
Total Dissolved Solids (mg/L)	1800			20	U		20

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - The parameter was analyzed for, but was not detected; The associated value is the sample detection limit, adjusted for dilution, if any.

J - The associated value is an estimated quantity.